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## Thai Puppet Performance with Projector and Light in Theatre

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### Abstract

The presented herein to guide the more ambitious beginner to understand the principles involved. The concept of cultural revitalization is an effort to solve problems of the development, creation and application arts and culture identity. The Hoon Lakorn Lek (Thai Puppet Show) performance is likely to serve as a solution to the conservation, development and dissemination of Thailand's cultural heritage with exquisite beauty and superior value. The Art and Science of Moving Light in Theatre, Live Performance, Broadcast, and Entertainment cover the history, the science, and the art of automated lighting.

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### 1. Introduction

Tourism development is vital to the economy of every country. Conservation and tourism development must be coupled with the development of arts, culture and traditions of the cultural heritage that is important to their identity and history. Since culture represents a unique culture and traditions of their reflecting the identity of them to other nations to understand the arts and diversity of values and culture, but some art and culture are eliminated from society if no development of the modern technology applied to the art of showing them the monotonous and boring to the audience.

Thai puppet show, a Thai cultural heritage, has stood side by side with Thai people for more than 300 years. According to historical evidence remained in the "Chronicle of the Voyage to Siam" by Le Reverend Père Qui Tachard and in other important documents. It can be concluded that "the puppet show performance is another field of arts performed to welcome foreign guests. Additionally, it is a performance that is extremely given Thai people happiness, can see that the puppet show in Thailand to be like the foreign tourists continues. We and the Aksra Hoon Lakorn Lek are supervised by Mr. Thawatjai Thavisri (Honourary advisor King Power Group of Companies) and

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Mr. Noomsake Yanavinayo (Director of Aksra Theatre) the conservation and development puppet Theatre performance to maintain the Thai identity [1].

Therefore, the importance of restoration and preservation of artistic tradition of the show is the puppet that is critical, however, although we will preserve and develop in many areas of the show, but also found that the main problem. The show cannot be done quickly and cannot change the story of the show as often big year for the drama based on a scene that makes it difficult and had a relatively high cost.



Fig. 1 Shows the background of complex problems of change and movement.

## 2. System Architecture

Innovation, technology and information systems is growing rapidly and plays an important role in helping to develop greater flexibility to work quickly lead to date and save costs [2]. Therefore, the researcher has an idea to develop a system that is compatible with a puppet show to change the background of the show is fast and realistic image using the projector with computer systems and lighting in light set the scene [3], [4].

Objectives that we expect to occur.

- To develop a modern realistic images.
- Can easily change the story of the show.
- Cost in setting the stage for each scene.
- To change venues anywhere.

Control systems can be very simple or not very complex. In its simplest form, a control system is a single controller connected to a data distribution system. Projectors will be designated as a primary device for direction of projection can be changed precisely and exactly the function of projected position of the projected image, synthesis, shape or arrangement and video and / or size of the images and display each image in a system composed of images of light and harmony in the display area. The media server that provides digital data is fed to a video projector, and attached to the projector to the movement [5]. The key system is the interface that allows you to control light control.

Light can be set automatically by the system suitable to match the projected image from the projector will cause the history of puppet theater based on the lighting and visual technology to combine the system images can there are several formats such as computer graphics, imaging 3-D or shooting from a real place a story to look like a movie as something we want, but the difference was a natural because of the live show is theatrical puppet [6]-[8].

It is most effective to introduce the basics of projection display by starting with the end goal: that is, the generation of imagery that is pleasing to the eye in all relevant respects.

Such a display has the following qualitative attributes:

1. High brightness.
2. Large color gamut, with saturated red, green, and blue.
3. Balanced white point.
4. High contrast.
5. Uniformity in brightness, color.
6. Large screen size.
7. High resolution.
8. Was a new invention that makes the image quality that have come out as true.

To quantify several of these attributes, it is necessary to understand the human visual system in terms of color and brightness sensitivity, as well as resolving power at various contrast levels. The chapter will begin therefore by summarizing color science, as it is currently understood, which relates the eye's perception of imagery to display metrics [9]–[11]. This establishes display requirements in terms of brightness, color, uniformity, size, resolution, etc., together with means of quantifying them. Subsequently, the requisite projection component technologies are introduced, beginning with the screen and working backward through the projection lens toward the light source. The functional requirements of the subsystem responsible for color management and light modulation will be discussed briefly, with a more rigorous treatment left to later chapters [12]. It should be noted that basic projection technology has been discussed in detail elsewhere and, where applicable, suitable references have been given should the reader need greater explanation.

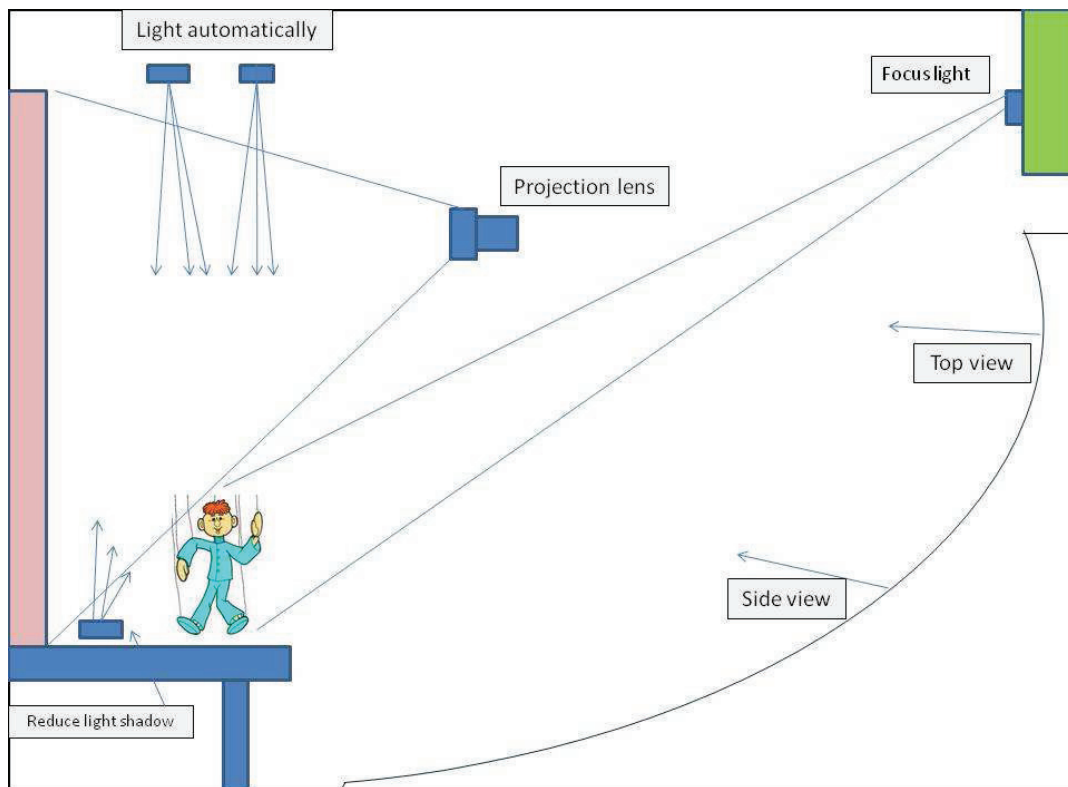


Fig. 2. Display system and projection technology with the use of light automatically



Fig. 3. Shows the backdrop of new development space and virtual reality

### 3. Conclusion

This idea is a new milestone of the development by applying modern technology, when we bring Light automatically shared with the system image to a progressive and modern to offer a fast system is easy to move the save distribution and quality that is innovative, but also embedded into the culture, history and art conservation.

### 4. Acknowledgement

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